Hull Public Schools

Technology Plan 2012 – 2017

Dr. Kathleen Tyrell, Superintendent of Schools
Judith Saide, IT Director

School Committee:

David Twombly, Chairperson

Marianne Harte, Vice Chairperson

Michelle Lanner, Secretary

Eric Hipp

Stephanie Peters

Technology Sub-Committee

Judith Kuehn, Assistant Superintendent

Michael Devine, Principal Hull High School

Anthony Hrivnak, Principal Memorial Middle School

Jean Penta, Principal Jacobs Elementary School

Christine Cappadona, Vice Principal Jacobs Elementary School

Judi Saide, IT Director

George Whelan, Assistant IT Director

Executive Summary

The Hull Public Schools have significantly improved technology in the district over the past 5 years. The Hull Public Schools community believes that increases in technology and teachers ability to use technology effectively will enhance learning, teaching and communication within the school system.

The Technology Sub-Committee recommends this revised technology plan. The goals in the technology plan focus on enhancing technology within the curriculum, establishing development of teachers, administrators and students technical skill level. This plan is in line with the "21st Century Schools" (see attachment).

MISSION STATEMENT

The Hull Public Schools will facilitate the development of students into independent thinkers and lifelong learners who are continually increasing their achievements, self-esteem and self-confidence in order to become socially responsible individuals.

Core Values

- *Equal access to educational opportunity for all*
- *Recognition and acceptance of individual student differences*
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- *High expectations for quality instruction*
- *A supportive home and school relationship*
- *Diverse methods of instruction*
- *Positive and productive relationships among and between staff, students, parents and community members*
- *Awareness of fiscal responsibility*
- *Broad based communication between all school and community stakeholders*
- *Decision-making founded in the assessment and accountability of school programs and personnel*
- *Standards based accountability*

Information Systems and Infrastructure

The Hull Public Schools Wide Area Network (WAN) connects all Hull schools, Central Administration and ten (10) other buildings in town. The WAN backbone is fiber optic cable connecting all major town owned buildings. Every staff member and teacher has an Exchange Email account on the network and the accounts are available via any Internet connection. The Fiber Backbone allows high speed high capacity data transfer for distance learning and Voice Over IP. Our local cable educational channels (Comcast Channel 9\Verizon Channel 35) are broadcast live from Hull High School.

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Goal 1:

Barracuda Backup System

Install Barracuda Backup system for backing up all district data locally and off site to cloud storage for Disaster Recovery purposes.

Outcome: Successfully Completed

Goal 2:

Fortigate Proxy System

Install Fortigate proxy logging system for all Internet usage.

Outcome: Successfully Completed

Goal 3:

Thin Client Labs

Upgrade six (6) computer labs and three (3) mini classroom labs with MS MultiPoint Server 2010 to MS MultiPoint Server 2011.

Outcome: Successfully Completed

Goal 4:

Upgrade Security Systems in Memorial Middle School and Jacobs Elementary School

Add additional DVR's and IP based cameras to the existing security systems in both schools.

Outcome: Successfully Completed

Goal 5:

Evaluate the use of Tablets and their associated applications both in the classroom as well as at district and school administrative level

We have equipped the 6th grade faculty as well as every 6th grade student with individual iPads with preinstalled productivity and educational applications. Provide training to the 6th grade faculty in the use of Internet enabled mobile devices in the classroom. Work with 6th grade faculty to identify further applications for acquisition in this environment.

We are working to provide all middle school teachers and students with iPads or iPad mini's as well as installing Smart Boards, LCD Projectors and Apple TV in all classrooms. Wireless printers will be installed in classrooms and common areas for access with wireless devices.

Outcome: Successfully Completed

Goal 6:

Install Fortigate Wireless Solution

Work to increase secure Fortigate enabled wireless access coverage in all three schools with the goal of 100 percent coverage. These devices are secure and work in conjunction with the Fortigate Firewall. The devices work together to hand off connection to the Internet or network as one moves throughout the building or to different classrooms. Access to the internet is also protected by Fortigate Site Blocking.

Outcome: Successfully Completed

Goal 7:

Interactive White Board Solutions

Continue to install interactive white board solutions in high need classrooms with the eventual goal of these devices installed in every educational space district wide. These solutions will include LCD Projectors, Speakers and Apple TV for connection with Tablets.

Outcome: Successfully Completed

Goal 8:

Migrate to Web Based School Information System

Migrate twelve years of data to X2 Aspen Student Information System. This online system tightens integration across schools, parent portal access, ease of remote access for administrators, teachers, students and parents and a distributed cloud based backup in the event of disaster.

Outcome: Successfully Completed

Goal 9:

Fundware Accounting System

Installation and configuration of new hardware to host the new upgraded version of the Fundware Accounting System which is accessed via terminal server from all three (3) schools as well as Central Office for all accounting purposes. This server is the Town's Accounting server.

Outcome: Successfully Completed

Goal 10:

Upgrade Exchange Email System

Installation and configuration of new hardware to host the Microsoft Exchange Server 2010. This will resolve mail store space limitationsiPhone, iPad exchange client configuration errors and Internet Explorer 10 Outlook Web Access issues.

Outcome: Successfully Completed

Goal 11:

Server Virtualization

Move from stand alone File Servers towards an environment of VM based virtual servers running on integrated hardware for purposes of resilience and high availability.

Outcome: Successfully Completed

Goal 12:

Move Towards Web Based Applications

Evaluate and gain access to web based applications to enhance the education of all students in the Hull Public Schools regardless of need. Eutactics SEMSNET Software is utilized for special education. The software is WEB based, allowing staff to access the information from any Internet connection.

Lexia is also a special education tool which assists staff in enhancing reading for special education students.

Outcome: Successfully Completed

Technology Inventory
Lillian M. Jacobs Elementary School

Device	2010-11	2011-12	2012-13	2013-14	2014-15
IT Staff	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT
Servers	4	3	3	3	3
Staff PCs	65	65	65	65	65
Student PCs	120	124	124	124	124
Student Laptops	0	0	0	0	0
Student Netbooks	0	0	0	0	0
Interactive Whiteboards	0	7	7	7	7
LCD Projectors	1	1	1	2	2
Apple TVs	0	0	0	0	8
Admin, Teacher & Student iPads	0	11	11	15	32
Fortigate Wireless Access Points	0	0	0	2	8
Wireless Printers	0	0	0	0	0
Fiber Internet Connection	Yes	Yes	Yes	Yes	Yes
Digital Phone System	Yes	Yes	Yes	Yes	Yes
VOIP Telephony	Yes	Yes	Yes	Yes	Yes
Fortigate Firewall	Yes	Yes	Yes	Yes	Yes
Fortigate Anti-Virus	Yes	Yes	Yes	Yes	Yes
Fortigate Content Filtering	Yes	Yes	Yes	Yes	Yes
Fortigate Usage Logging	Yes	Yes	Yes	Yes	Yes

Memorial Middle School

Device	2010-11	2011-12	2012-13	2013-14	2014-15
IT Staff	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT
Servers	4	3	3	3	3
Staff PCs	37	37	37	37	37
Student PCs	84	94	94	90	87
Student Laptops	30	15	15	10	3
Student Netbooks	0	10	7	4	3
Interactive Whiteboards	2	6	6	6	8
LCD Projectors	7	9	9	9	9
Apple TVs	0	0	5	15	17
Admin, Teacher & Student iPads	0	4	106	267	293
Fortigate Wireless Access Points	0	0	8	15	17
Wireless Printers	0	0	4	15	15
Fiber Internet Connection	Yes	Yes	Yes	Yes	Yes
Digital Phone System	Yes	Yes	Yes	Yes	Yes
VOIP Telephony	Yes	Yes	Yes	Yes	Yes
Fortigate Firewall	Yes	Yes	Yes	Yes	Yes
Fortigate Anti-Virus	Yes	Yes	Yes	Yes	Yes
Fortigate Content Filtering	Yes	Yes	Yes	Yes	Yes
Fortigate Usage Logging	Yes	Yes	Yes	Yes	Yes

Technology Inventory
Hull High School

Device	2010-11	2011-12	2012-13	2013-14	2014-15
IT Staff	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT
Servers	4	3	3	3	3
Staff PCs	49	49	49	49	49
Student PCs	84	108	108	112	112
Teacher and Student Macs	10	15	15	15	15
Student Laptops	10	0	0	0	0
Student Netbooks	0	0	2	5	7
Interactive Whiteboards	2	7	7	7	7
LCD Projectors	2	3	3	3	8
Apple TVs	0	0	0	0	15
Admin, Teacher & Student iPads	0	5	5	8	95
Fortigate Wireless Access Points	0	0	0	4	20
Wireless Printers	0	0	0	1	10
Certified MS Test Center (3 stations)	Yes	Yes	Yes	Yes	Yes
Video Conference Center	Yes	Yes	Yes	Yes	Yes
TV Production Program	Yes	Yes	Yes	Yes	Yes
Fiber Internet Connection	Yes	Yes	Yes	Yes	Yes
Digital Phone System	Yes	Yes	Yes	Yes	Yes
VOIP Telephony	Yes	Yes	Yes	Yes	Yes
Fortigate Firewall	Yes	Yes	Yes	Yes	Yes
Fortigate Anti-Virus	Yes	Yes	Yes	Yes	Yes
Fortigate Content Filtering	Yes	Yes	Yes	Yes	Yes
Fortigate Usage Logging	Yes	Yes	Yes	Yes	Yes

Hull Public Schools District

Device	2010-11	2011-12	2012-13	2013-14	2014-15
IT Staff	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT	2 FT, 1PT
Servers	12	9	9	9	9
Staff PCs	151	151	151	151	151
Student PCs	288	326	326	326	323
Teacher and Student Macs	10	15	15	15	15
Student Laptops	40	15	15	10	3
Student Netbooks	0	10	9	9	10
Interactive Whiteboards	4	20	20	20	22
LCD Projectors	10	13	13	14	19
Apple TVs	0	0	5	15	40
Admin, Teacher & Student iPads	0	20	122	290	420
Fortigate Wireless Access Points	0	0	8	21	45
Wireless Printers	0	0	4	16	25
Certified MS Test Center (3 stations)	Yes	Yes	Yes	Yes	Yes
Video Conference Center	Yes	Yes	Yes	Yes	Yes
TV Production Program	Yes	Yes	Yes	Yes	Yes
Fiber Internet Connection	Yes	Yes	Yes	Yes	Yes
Digital Phone System	Yes	Yes	Yes	Yes	Yes
VOIP Telephony	Yes	Yes	Yes	Yes	Yes
Fortigate Firewall	Yes	Yes	Yes	Yes	Yes
Fortigate Anti-Virus	Yes	Yes	Yes	Yes	Yes
Fortigate Content Filtering	Yes	Yes	Yes	Yes	Yes
Fortigate Usage Logging	Yes	Yes	Yes	Yes	Yes

HULL PUBLIC SCHOOLS

PROFESSIONAL DEVELOPMENT Summer 2011

- Leadership Team participated in initial iPad training.

PROFESSIONAL DEVELOPMENT 2012 – 2013

Instructional Technology Integration	
Description/Participant(s)	**Timeline/Strategy**
Train leadership team, teacher/leaders, literacy coach & key teachers in Aspen Curriculum & Learning (curriculum mapping tool)	• October 16, 2012 Software is web based and integrated with student information system
Train teachers by articulation teams or grade levels in Aspen Curriculum & Learning (curriculum mapping tool)	• November 6, 2012
Paraprofessionals and student service providers Bookshare.org workshop Bookshare provides the world's largest online library of accessible reading materials for people with print disabilities.	• November 6, 2012 Hull High School Foreign Language Lab
iPad training for grade 6 teachers and Memorial Principal will discuss implementation & observe content teachers implementing iPad	• Summer 2012 • October 26 at Boston College High Arrupe Division
Training for elementary teachers on electronic report card, attendance, lunch, and plan book using Aspen	• October 29,2012 • Individual meetings with teachers during fall 2012
Elementary technology specialist Empowering teaching and learning with technology conference	• October 24, 2012 2012 Technology Conference Gillette Stadium
Everyday Math Consultant Train elementary teachers to use Everyday Mathematics online curriculum for teachers, students and parents	• September 18 & 25, 2012 Jacobs School

Professional Development 2013 – 2014

Instructional Technology Integration	
Description/Participant(s)	**Timeline/Strategy**
Instructional technology workshops to integrate iPad with classroom instruction grades 6 – 12 facilitated by technology consultant, Derry Schwantner	• October 8, 2013 • October 17, 2013 • November 14, 2013 • December 4, 2013 • Spring 2014
iPad training for Memorial School teachers facilitated by Memorial Principal and teachers	• 2 days June 2013 • August 19 & 20, 2013
Training to transition 504 plans and IEP's to Aspen across the district coordinated by Director of Student Services	• Aspen Fundamentals Refresher November 8, 2013 • WebEx Pando Overview November 8, 2013 • Administration training (full day) January 10, 2014 • Special Ed Teachers and all users (full day) January 31, 2014 • March follow up training TBD
Training on SMART PD for all staff to allow access to professional development opportunities online in other communities and sign up for professional development offered through HPS	• Principal hours at all buildings during December 2013 and January 2014
Everyday Math online assessments and Everyday Math pacing guide	• Training during Jacobs School principal hours
Empowering Teaching and Learning Technology Director, Technology Assistant, Elementary Technology Teacher	• October 25, 2013 Technology Conference Gillette Stadium
Google Docs & Turnitin.com High School Staff	• School year 2013 - 2014 during high school principal hours
Apple TV and Wireless Printing Middle school staff	• Principal hours during school year

Professional Development 2014 - 2015

Instructional Technology Integration	

Description/Participant(s)	Timeline/Strategy
Technology Conference @ Gillette Stadium, Empowering Teaching and Learning technology department, Middle School Principal, technology teachers, and 3 middle school teachers	• October 25, 2014
Instructional technology workshop to integrate iPad with classroom instruction grade 9 teachers facilitated by technology consultant, Derry Schwantner	• August 28, 2014 (3 hours)
Training on SMART PD for all staff to allow access to professional development (PD) opportunities online in other communities and to sign up for PD offered through HPS	• Principal hours at all buildings fall of 2014
Edgenuity Training High School Staff	• October 7, 2015
Assistant principals, adjustment counselors, and guidance counselor attend PARCC Bootcamp for building technology infrastructure, scheduling and staffing for online assessments, student information and data, devices, proctoring, and accommodations	• December 4, 2014
Glencoe math representative trains grade 6 and grade 7 math teachers on Glencoe math online textbook/resources and ALEKS	• Fall 2014 and Spring 2015
Google Docs & Turnitin.com High School Staff	• School year 2014 - 2015 during high school principal hours
Apple TV and Wireless Printing Selected teachers at elementary school and high school	• Principal hours during school year at middle school and high school

Hull Public Schools Online Textbooks

Math Course	Text/Resources	Year Adopted
Grade 6	Glencoe Math grade 6 McGraw Hill	2015
Grade 7	Glencoe Math grade 7 McGraw Hill	Pilot 2015 - 2016
Grade 8 Pre - Algebra	Prentice Hall Math Common Core Algebra I	2013
Grade 8 Algebra I	Prentice Hall Math Common Core Algebra I	2013
Geometry CP & Honors	Prentice Hall Common Core Geometry	2013
Algebra II CP & Honors	Prentice Hall Common Core Algebra II	2013
Middle School Spanish Textbooks	ASI CSE DICE Glencoe McGraw Hill	2014
Middle School ELA	Various novels via iPads	2013

Hull Public Schools

Supplemental Technology Plan 2015 – 2017

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Marianne Harte

Kelley Huxtable

Technology Sub-Committee - 2015

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Matthew Gillis, Business Manager

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Goal 13:

Classroom

Increase use of technology in the classroom.

- Mobile iPad Lab
  - Jacobs Technology teacher will co-teach with regular ed teacher. Teachers utilizing mobile iPad lab and Apple TV.
  - Memorial Middle School and Hull High School will continue to expand use of iPads to enhance instruction.

Outcome: Successfully Completed

Goal 14:

K – 12 Specialists

Explore funding for K – 12 technology integration specialists.

Outcome: Ongoing

Goal 15:

Communication

Streamline effective communication with all stakeholders.

Outcome: Successfully Completed

Goal 16:

Internet

Build redundant internet connections in all three schools.

Outcome: In Progress (Verizon)

Goal 17:

Professional Development

Continue to provide professional development to all staff in the area of technology.

Outcome: Successfully Completed

Goal 18:

Expansion

Continue to increase infrastructure to support technology at the classroom level K – 12.

Outcome: Successfully Completed

Goal 19:

Procedure

Develop a procedure regarding updating and replacing technology for students and staff.

Outcome: Successfully Completed

Goal 20:

Memorial Middle School

Upgrade Memorial Middle School engineering lab to support Computer Design

Outcome: In Progress to be Completed in August

Goal 21:

Hull High School

Upgrade digital art technology lab.

Hull Public Schools Online Textbooks

Course	Text/Resources	Year Adopted
AP Government	Pearson AP Government in America 2014 edition with my poli sci lab and etext AP Government in America People Politics and Policy Workbook	2016
AP Statics	Pearson Fundamentals of Statics 4th edition w/my stat lab and etext	2016
Math Grade 6	McGraw Hill Glencoe Math grade 6	2015
Math Grade 7	McGraw Hill Glencoe Math grade 7	2016
Online courses	Edgenuity	2015
Grade 8 Pre - Algebra	Prentice Hall Math Common Core Algebra I	2013
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Outcome: Successfully Completed

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Outcome: Ongoing

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Streamline effective communication with all stakeholders.

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Internet

Build redundant internet connections in all three schools.

Outcome: In Progress (Verizon)

Goal 17:

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Continue to provide professional development to all staff in the area of technology.

Outcome: Successfully Completed

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Expansion

Continue to increase infrastructure to support technology at the classroom level K – 12.

Outcome: Successfully Completed

Goal 19:

Procedure

Develop a procedure regarding updating and replacing technology for students and staff.

Outcome: Successfully Completed

Goal 20:

Memorial Middle School

Upgrade Memorial Middle School engineering lab to support Computer Design

Outcome: In Progress to be Completed in August 2016

Goal 21:

Hull High School

Upgrade digital art technology lab.

Outcome: Re-evaluation in 2017

Goal 22:

Jacobs Elementary School

Add a second iPad Mobile Cart with Apple TV, Projector and Printer.

Outcome: In Progress to be Completed in August 2016

Goal 23:

Memorial Middle School

Convert Library Lab from Thin Client Solution to Standalone PC Lab.

Outcome: Successfully Completed

Goal 24:

Hull Public Schools

Form a Committee compare the advantages and disadvantages of Chromebooks vs. iPads in the Hull Public Schools educational environment.

Outcome: Successfully Completed

Goal 25:

Memorial Middle School

Install and configure the AirWatch MDM solution for iPad management.

Outcome: In Progress to be Completed in August 2016

Goal 26:

Memorial Middle School and Hull High School

Sign up, create domain and configure Google Apps for Education

Outcome: In Progress to be Completed in August 2016

Goal 27:

Hull Public Schools

Migrate from Connect Ed to School Messenger to improve reliability of calls to community.

Outcome: In Progress to be Completed in August 2016

Goal 28:

Hull Public Schools

Migrate from Windows XP and MS MultiPoint Server 2011 to Windows 7.

Outcome: In Progress

Goal 29:

Jacobs Elementary School

Repurpose Library Lab to a new location to support Grade 4 reading in preparation for the mandated computerized State testing.

Outcome: In Progress

Goal 30:

Hull Public Schools

Additional Smart Boards in all 3 Schools.

- 3 for the Jacobs
- 4 for the Memorial (this will complete the school and have a Smart Board in all Classrooms)
- 3 for the HHS

Outcome: Pending Funding

HULL PUBLIC SCHOOLS

Overview of Professional Development 2015 - 2016

Instructional Technology Integration	

Description/Participant(s)	Timeline
Technology Conference @ Gillette Stadium, Empowering Teaching and Learning technology department, representatives from each building	October 21 & 22, 2015
Jacobs Technology Teacher collaborates with classroom teachers and their students using the iPad cart to increase use of technology	Ongoing during the school day
The HPS Technology Committee coordinates "Get Linked" an event for parents to learn more about district applications and to participate in a focus group to give feedback on HPS use of social media for communication and to share other ideas	November 12, 2015 6:00 – 8:00 @ Memorial Middle School
PreK – 12 educators participate in self selected mini sessions focused on technology to enhance their instruction and practice	March 1, 2016 Professional Development Day
PreK – 12 educators follow up on technology information from March 1	March 8, 2016 (early release) Principal hours
9- 12 educators attend training facilitated by a middle school teacher to transfer current use of iPad by grade 8 students to the high school teachers to prepare for their transition to grade 9	Principal hours Spring 2016

Sample of Technology Training 2016 – 2017
- Ongoing Aspen training across district for new teachers
- Various levels of Smartboard and Apple TV training for educators
- Integration of iPad by content area grades 6 – 12
- Jacobs technology teacher will collaborate with classroom teachers using iPad carts and Apple TV
- Jacobs technology teacher will collaborate with grade four teachers to increase use of technology on a daily basis to prepare for grade four students taking computer based MCAS 2.0
- Introduce the new Memorial Middle School library research laboratory
- School Messenger Notification System (replacing Connect ED) training for administrators and support staff
- Middle school administrators AirWatch training for iPad management

Hull Public Schools
Parent Event

Get Linked!

November 12, 2015
Location: Memorial Middle School

On November 12, the Hull Public Schools will host *"Get Linked"*! This is a great opportunity for parents to learn more about district applications and to participate in a parent focus group on technology. The focus group will allow parents to provide feedback on the district's use of social media for communication. Please join us for one or all sessions!

Free child care will be provided by the National Junior Honor Society. Please call Mrs. Casey at 781-925-2040 Ext. 1101 to reserve a space and provide her with the age(s) and number of child(ren) that will access this child care.

Session 1	Session 2	Topic	Description
6:00 p.m. to 6:30 p.m. Room 129	7:00 p.m. to 7:30 p.m. Room 129	**Technology Overview** PreK to Grade 5	Learn about the Apple Cart, Smartboards and technology instruction at the Jacobs Elementary School. Facilitated by: Christine Cappadona and Kerrie Ryan
6:30 p.m. to 7:00 p.m. Grade 7 Large Group Room	7:30 p.m. to 8:00 p.m. Grade 7 Large Group Room	**Parent Technology Focus Group** PreK to Grade 12	We want to hear your feedback on technology and the use of social media for communication with families. Please participate in this focus group to share your ideas. Facilitated by: Judy Kuehn, Judi Saide, Nicole Nosek, and Kyle Shaw
6:00 p.m. to 6:30 p.m. Room 246	7:00 p.m. to 7:30 p.m. Room 246	**Aspen Overview** Grades 6 to 12	This session will cover how parents can access report cards, grades, assignments, attendance, Quest, and teacher updates through the parent portal in Aspen. Facilitated by: Michael Devine and Anthony Hrivnak
6:00 p.m. to 8:00 p.m. Room 244		**General Support Drop-In Session**	Are you having trouble gaining access using a school assigned digital device? Please drop in and receive help from a technology support person. Facilitated by: George Whelan and Greg Kelley

Hull Public Schools
March 1, 2016
Technology Professional Development
Digital Learning Day

Module/Time	Offering A	Offering B	Offering C	Offering D	Offering E
Session One 8:00 a.m. to 9:30 a.m.	iPads Tips and Tricks Derry Schwantner	Beginner SMART Board Training Heather Lindsay, SMART Certified Trainer	Universal Design with Technology (UDT) to Differentiate Instruction Lori Cooney, UMASS Boston Professor	Gamify your Class: Tools and Strategies M.J. Linane 2015 MassCue Pathfinder Award Recipient	Google Drive Advanced Greg Kulowiec EdTech Teacher
Session Two 9:40 a.m. to 11:00 a.m.	Making Movies on the iPad Derry Schwantner	Intermediate SMART Board Training Heather Lindsay, SMART Certified Trainer	Universal Design with Technology (UDT) to Differentiate Instruction Lori Cooney, UMASS Boston Professor	Get Things Done: Organize Your Life and Double Your Productivity MJ Linane 2015 MassCue Pathfinder Award Recipient	Google Classroom Greg Kulowiec EdTech Teacher
	Lunch On Your Own		**11:00 a.m to 12 p.m.**		
Session Three 12:00 p.m. to 1:20 p.m.	iPads Tips and Tricks Derry Schwantner	Intermediate SMART Board Training Heather Lindsay, SMART Certified Trainer	Get Things Done: Organize Your Life and Double Your Productivity MJ Linane 2015 MassCue Pathfinder Award Recipient	Schoology Siobhan Gearty Brianna Kelliher Memorial Middle School	Google Drive 101 Beginner Greg Kulowiec EdTech Teacher
Session Four 1:30 p.m. to 3:00 p.m.	iPads Tips and Tricks Derry Schwantner	Beginner SMART Board Training Heather Lindsay, SMART Certified Trainer	Gamify your Class: Tools and Strategies M.J. Linane 2015 MassCue Pathfinder Award Recipient	Schoology Siobhan Gearty Brianna Kelliher Memorial Middle School	Screencasting with iPads Greg Kulowiec EdTech Teacher

WiFi Access: PUBLIC - freepublicinternet

Hull Public Schools Online Textbooks

Course	Text/Resources	Year Adopted
AP Government	Pearson AP Government in America 2014 edition with my poli sci lab and etext AP Government in America People Politics and Policy Workbook	2016
AP Statics	Pearson Fundamentals of Statics 4th edition w/my stat lab and etext	2016
Math Grade 6	McGraw Hill Glencoe Math grade 6	2015
Math Grade 7	McGraw Hill Glencoe Math grade 7	2016
Online courses	Edgenuity	2015
Grade 8 Pre - Algebra	Prentice Hall Math Common Core Algebra I	2013
Grade 8 Algebra I	Prentice Hall Math Common Core Algebra I	2013
Geometry CP & Honors	Prentice Hall Common Core Geometry	2013
Algebra II CP & Honors	Prentice Hall Common Core Algebra II	2013
Middle School Spanish Textbooks	ASI CSE DICE Glencoe McGraw Hill	2014
Middle School ELA	Various novels via iPads	2013

iPads versus Chromebooks

Scenario #1	
Chromebooks for all grade 9 to 11 students and teachers	$59,100
Hull High School Set Ups	$5,000
Hull High School Loaners	$1,135
Grade 6 iPads	$33,100
150 used iPads repurposed to Jacobs Elementary School	
6 Jacobs Elementary School Set Ups	$6,000
Jacobs Elementary School WiFi Costs	$10,000
Total Cost	$114,335

Pros	Cons
Chromebooks are less expensive	Two platforms
Chromebooks support College and Career Readiness	Increase in training
Students can use their own iPhones for video, etc.	Investment in iPad platform compromised

Scenario #2	
Chromebooks for all grade 9 to 11 students and teachers	$59,100
Hull High School Set Ups	$5,000
Hull High School Loaners	$1,135
Current Grade 8 iPads repurposed to incoming grade 6 students	
100 used iPads go to Jacobs Elementary School	
6 Jacobs Elementary School Set Ups	$6,000
Jacobs Elementary School WiFi costs	$10,000
Total Cost	$81,235

Pros	Cons
Significant increase in technology integration at Jacobs Elementary School to prepare students for on-line MCAS 2.0	Grade 6 students receive recycled iPads from grade 8
Chromebooks support College and Career Readiness	Two platforms
Chromebooks are less expensive	Increase in training
Chromebooks have 3 years of insurance	Investment in iPad platform compromised

Scenario #3	
New iPads for all incoming grade 6 students	$33,110
Replacement iPads for Hull High School (70)	$33,110 (used with incoming grade 9 students and incoming grade 9 iPads will be repurposed to grade 10 and grade 11 students who have iPads that are not working)
Hull High School Set Ups	$5,000 – 5 set ups
New iPads for Jacobs Elementary School (20)	$9,460
1 Jacob Elementary School Set Up (cart)	$1,000
Jacobs Elementary School WiFi costs	$10,000
Total Cost	$91,220

Pros	Cons
All grade 6 students receive a new iPad	Jacobs Elementary School receives only one iPad cart
Consistent platform at all buildings	Fewer iPads for Jacobs Elementary School (see goal #29)
iPads now offer 3 year warranty	Challenge for families to repair broken iPads after 2 year warranty expires
Damaged and/or old iPads older than 5 years will be replaced	
Ability for high school teachers to integrate the technology because all students in grades 9 to 11 have a consistent device	
Consistent professional development K-12	
Students build on their knowledge of the iPad	
Supports investment in iPads, set ups, apps, and staff training	

*In all scenarios Hull Public Schools must prepare to absorb the cost of replacing any device after 5 years of use.